

Epson Stylus® Pro 4900

REDEFINING THE FUTURE OF PRINTING





Our Next Generation.

It was only a matter of time before our engineers found a way to push ink jet technology to the next level. By incorporating the most innovative technologies Epson has to offer, this could possibly be the most advanced photographic printing technology ever produced.

Introducing the All-New Epson Stylus Pro 4900.



Representing our next generation, the Epson Stylus Pro 4900 incorporates our latest technological achievements in professional photographic imaging.

Epson UltraChrome® HDR Ink continues to set the standard for all other pigment-based ink technologies. Now utilizing ten colors — including an all-new Orange and Green — Epson UltraChrome HDR Ink produces the widest color gamut ever from an Epson Stylus Pro printer.

Even more remarkable, by combining this ink set with our AccuPhoto™ HDR screening technology, Epson engineers have once again raised the level of print quality, achieving the highest level of color accuracy, while setting a new benchmark standard for photographic reproduction.

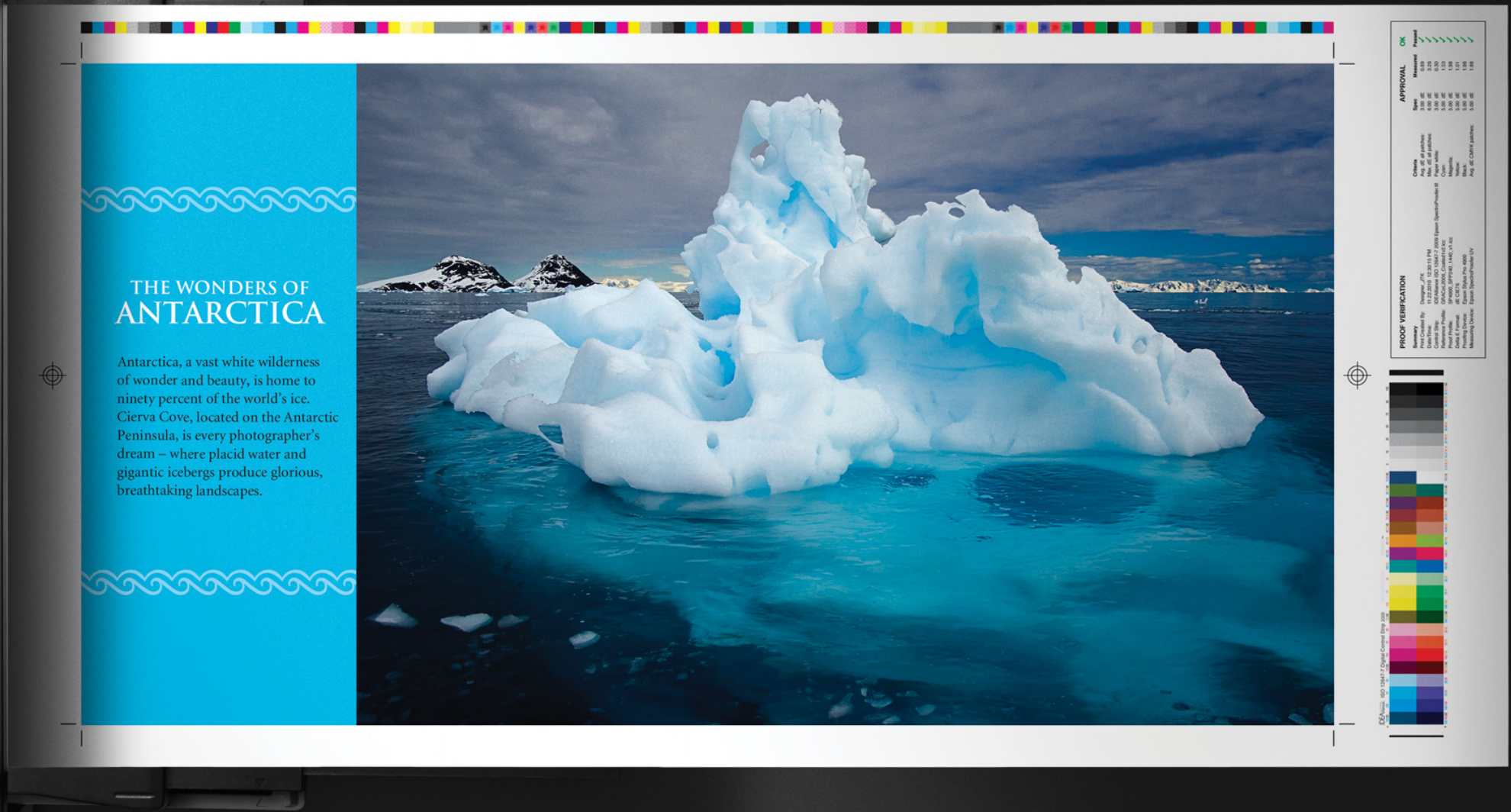
Our advanced MicroPiezo TFP print head is capable of producing higher quality prints, at speeds up to twice as fast as our previous generation. And, with our latest ink-repelling coating and auto nozzle verification technologies, clogged nozzles are virtually eliminated.

Handling virtually any media type, in both roll or cut sheets up to 17 inches wide, the Epson Stylus Pro 4900 continues to set the standard for professional media use. And for the first time, you can have both the front paper tray and roll feeder loaded with different media types and automatically switch between them as you print.

In partnership with X-Rite®, Epson has developed a high performance, in-line spectrophotometer for commercial proofing applications. When driven by the latest front-end RIPs, Epson's SpectroProofer® can automate virtually any color management process in your workflow, making the Epson Stylus Pro 4900 the perfect solution for the most demanding local and even remote proofing applications.

Whether producing sellable color or black-and-white photography, fine art reproductions, or color accurate commercial and flexographic proofs for client approvals, never before have creative professionals had such a powerful tool, allowing them to produce their vision without compromise.

Welcome to our next generation.





Automatic Roll and Cut-Sheet Feeding

Now you can have both the front paper tray and roll media feeder loaded at the same time, while auto-switching as you see fit. It's the ideal feature when you require automated printing across two different paper types, bleed styles and/or sizes.

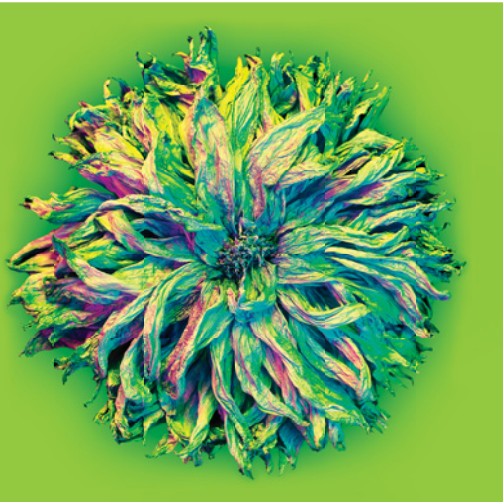


Our Next Generation of Photographic Printing

- A new standard has been set with Epson UltraChrome HDR Ink technology
- Extreme color gamut, especially within the midtone-to-highlight color ranges
- Epson's AccuPhoto HDR screening redefines photographic accuracy, color and clarity
- The combination of these technologies represents a significant improvement in photographic ink jet printing

Quite possibly the most advanced photographic printing technology ever produced.

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Advanced Black-and-White Printing Technology

- Unique driver technology takes full advantage of our three-level black system to produce professional black-and-white prints from color or grayscale image files
- Advanced 12-bit Epson screening technology developed specifically for black-and-white printing
- Produces a truly consistent image with no color crossovers or color casts
- Some of the world's greatest black-and-white prints are being produced with this technology

© 2010 Lois Greenfield





Rethink Commercial and Flexographic Proofing

- Quite possibly the highest quality contract-color proofing system available today
- Extreme color gamut makes it possible to hit spot and client-specific colors correctly
- Certified by PANTONE® to accurately match 98% of the PANTONE FORMULA GUIDE solid coated²
- Superior color consistency, proof after proof and day after day
- Legendary Epson durability for virtually maintenance-free proofing 24/7
- Capable of managing higher proofing volumes for increased productivity
- Compatible with most leading third-party RIPs and workflows
- Capable of proofing almost any other printing method — even package and label printing

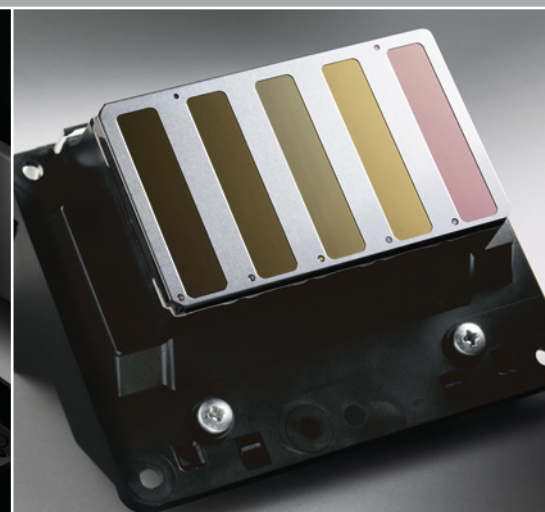
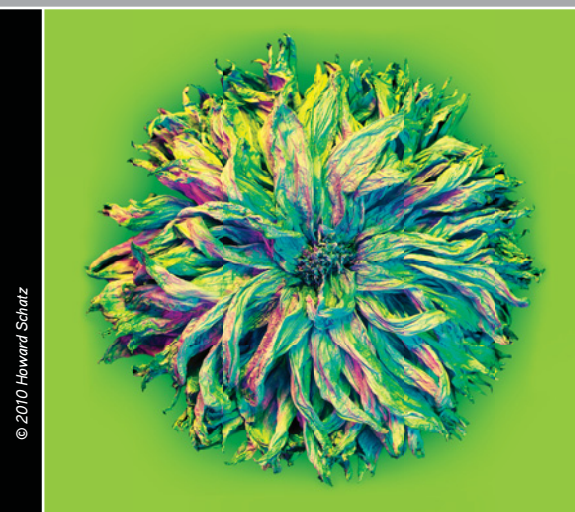


Epson Stylus Pro 4900
Shown with Epson's optional SpectroProofer 17 installed.

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Quite possibly the most advanced photographic printing technology ever produced.



Epson UltraChrome HDR Ink

Industry-proven pigment-based ink technology. Utilizing ten colors — including Orange and Green — to produce the widest color gamut in the industry.

MicroPiezo® TFP® Print Head

Exotic Thin Film Piezo print head technology. Extreme printing performance and dot placement accuracy for unparalleled print quality.

Automatic Black Ink Mode Switching

Regardless of your media type, the Epson Stylus Pro 4900 can quickly and efficiently optimize the black ink density for your print.

Epson SpectroProofer 17

- Optional 17-inch wide spectrophotometer developed jointly with X-Rite
- Simple installation — fits cleanly into the front of the Epson Stylus Pro 4900
- Supports color measurements printed on either roll or cut-sheet media
- Incorporates a high performance X-Rite ILS20 spectrophotometer for extreme measurement repeatability, max. 0.2 dE cmc
- UV-cut and non-UV-cut versions available at the time of purchase
- Both black and white interchangeable backing plates included
- Built-in print dryer to accelerate the dry-down and reading process
- When driven by the latest front-end RIP software, the SpectroProofer can automate virtually any color management process in your workflow



Supported by leading RIP companies.

Unique Print Head Technology

High-Precision Ten-Channel MicroPiezo TFP Print Head

- Thin Film Piezo (TFP) print head design capable of handling ten separate ink channels
- One-inch-wide, high performance print head with 360 nozzles per channel
- Auto-sharing Black ink channel technology
- Low vibration meniscus control for highly accurate dot shape and placement
- Ink-repelling coating for dramatically reduced nozzle clogging
- Produces variable-sized droplets as small as 3.5 picoliters to greatly decrease print times while optimizing photographic quality

AccuPhoto HDR Screening

- Advanced ten-color screening algorithm resulting in prints with superior color and clarity
- Maximum resolution of 2880 x 1440 dpi for incredibly sharp text and line art
- Produces extremely fine blends and photographic transitions
- Extremely accurate highlight-to-shadow details
- No visible photographic graininess due to the printing process¹
- Ensures consistent color balance regardless of the viewing light source
- When combined with the precise dot placement accuracy of the MicroPiezo TFP print head, overall photographic print quality is dramatically improved

Automatic Print Head Alignment

- Built-in sensor performs highly precise alignments of all color channels
- Automatically aligns both single- and bi-directional print modes

Automatic Nozzle Verification and Cleaning

- Embedded sensors quickly verify nozzle status without using media and automatically clean the print head if required
- System is user configurable to meet your specific nozzle verification requirements

Epson UltraChrome HDR Ink Technology

Next Generation Ten-Color Pigment-Based Ink System

- Unique High Dynamic Range (HDR) pigments for an extremely wide color gamut
- Ten-color printing system including all-new Orange and Green inks
- Certified by PANTONE to cover 98% of the PANTONE FORMULA GUIDE solid coated²
- Designed to work with AccuPhoto HDR screening technology
- Professional print permanence
- Outstanding short-term color stability for mission-critical proofing applications
- Improved Microcrystal Encapsulation™ technology for reduced gloss differential
- Improved black density up to 2.6 with an L* value ~3.0³

Three-Level Black Ink Technology

- Simultaneously uses Black, Light Black, and Light Light Black inks
- Significantly improves the gray balance while eliminating color casts
- Outstanding highlight-to-shadow grayscale accuracy for a smoother tonal range
- Extremely reduced color inconstancy ensuring uniform color under almost any lighting condition
- Virtually eliminates any bronzing of basic pigment chemistry
- Enhances the ICC profiling process for ColorSync® and WCS workflows

Automatic Black Ink Mode Switching

- Both Photo and Matte Black ink cartridges are installed simultaneously
- Depending upon your media type or driver setting, the printer will automatically switch to the correct black ink type
- Switching can occur automatically or provide a warning before proceeding
- Highly-efficient print head design ensures fast switching with minimal ink usage
- Automatically ensures optimum black ink density, regardless of media type used

Next-Generation Print Engine Technology

Professional Media Handling

- Compatible with virtually any media type, in roll or cut sheet, from letter up to 17 inches wide
- Built-in high-capacity paper tray handling up to 250 sheets of plain paper, or up to 100 sheets of premium paper as large as 17" x 24"
- Automatic switching between front high-capacity paper tray and automatic roll media feeder
- Four built-in media paths including roll feed, front paper tray, top manual feeder, and a straight-through, front manual feeder that handles cut sheets up to 1.5 mm thick
- Printer and driver based media identification and synchronization system for virtually error-free media use

ePlaten™ Media Loading Technology

- Accurate media loading, movement, skew adjustment and tracking
- User-adjustable, dual-tension, roll media spindle accepts either 2- or 3-inch media cores
- Electronically controlled roll media back tension
- Automatic roll media rewind upon media release

Roll Media Length Tracking and Identification System

- Real-time automatic remaining roll media length counter
- Auto barcode tagging of remaining roll media information for faster reloading
- Very useful for tracking partially used media rolls

High Performance Rotary Cutting System

- Durable rotary cutter, designed to be virtually maintenance free
- High performance cutting speeds
- Off-carriage cutting system eliminates media dust within critical components
- Capable of cutting virtually any roll media type, including most canvas and fine art papers

True Roll-Based BorderFree® Printing

- Capable of printing off both left and right edges of roll-based media, while automatically cutting the top and bottom edges to create a full-bleed print
- Fully trims your photographic prints, faster and safer than by hand

Epson Intelligent High-Capacity Ink System

- Newly-designed ink cartridge technology ensures reliable ink delivery at all print speeds, while dramatically reducing the physical size of the ink cartridges
- Eleven individual ink cartridges available in 200 ml fill capacities
- On-the-fly ink cartridge replacement for increased productivity

Easy-to-Use Front Control Panel

- 2.5-inch high-resolution color LCD for improved viewing of printer status
- Simple button layout for all navigation and basic printer functions
- All-new ‘Ink’ button to quickly access key actions such as manual or automatic print head cleaning or nozzle verification
- Built-in printer warning lamp for easy identification across a large space

Superior Connectivity

- Standard connectivity includes one USB 2.0 and one 10/100 BaseT Ethernet port
- Professional Epson Photographic Drivers for Macintosh® and Windows®
- Fully supported by most leading third-party software RIPs and workflows

New Quiet and More Power-Efficient Design

- Significantly reduced noise while printing, making it ideal for home office or studio use
- Virtually silent when powered ‘On’ and idle — less than 6.1 dB(A)
- ENERGY STAR® compliant — uses only about 8.5 watts while in Sleep Mode
- User controlled sleep and power management system for maximum efficiency

World-Class Service and Support

- Includes one year of limited coverage under the Epson Preferred™ Protection Plan with toll-free telephone support available Monday through Friday and usually next-business-day whole unit exchange
- Optional one- or two-year Epson Preferred Plus service plans available

Epson Signature Worthy Papers

- Only the highest quality Epson papers receive the Signature Worthy® designation
- Signature Worthy papers represent the finest in color fidelity, smooth tonal transitions, exceptional black density and longevity
- Used by the most demanding creative professionals; considered by many to set the benchmark standard in high-end digital imaging
- The Signature Worthy family of papers covers both photographic and fine art applications
- Visit proimaging.epson.com for more details



High Performance Print Engine Speeds

Utilizing our latest print head technology, the Epson Stylus Pro 4900 is the fastest professional desktop printer Epson has ever produced. Check out these numbers:^B

Print Mode	8" x 10"	11" x 14"	16" x 20"
Fine – 720 dpi HS	0:59	1:42	2:46
SuperFine – 1440 dpi HS	1:28	2:31	4:11
SuperPhoto – 2880 dpi HS	2:26	4:04	6:48
HS = High-speed Print Mode (Bi-directional Print Mode) Print speeds are shown in min:sec.			



1 Photographic graininess could still be visible if present in the actual file being printed.
2 When printing on Epson Proofing Paper White Semimatte at 2880 x 1440 dpi.
3 Dmax and L* values are based on Epson Premium Luster Photo Paper (260).

Epson Stylus Pro 4900 Specifications

Printing Technology

Advanced MicroPiezo TFP print head
with ink repelling coating technology
10-channel, drop-on-demand, ink jet print head
11-cartridge (O, G, C, Lc, VM, VLm, Y, Lk, LLk + PK or MK)
Auto head alignment and cleaning technology
Auto sharing black ink channel
Epson UltraChrome HDR Ink technology
Professional-level pigment-based ink technology

Nozzle Configuration

Color and Monochrome 360 nozzles x 10

Droplet Technology

Smallest droplet size 3.5 picoliters
Variable Droplet Technology produces up to three different droplet sizes per print line

Epson Intelligent Ink Cartridges*

Starter cartridge fill volume	80 ml x 11 total colors (used for initial fill at setup)
Replacement cartridge fill volume	200 ml each color x 11 colors total
Ink cartridge shelf life (recommended)	2 years from printed production date or 6 months after open

Resolution

2880 x 1440 dpi; 1440 x 1440 dpi; 1440 x 720 dpi;
720 x 720 dpi; 720 x 360 dpi; Draft 360 dpi; Draft 180 dpi

Printer Language/Drivers

Epson ESC/P®2 raster photographic drivers standard
Optional PANTONE licensed and Adobe PostScript RIP by EFI®
(EFI eXpress included only with Designer Edition bundle)
Supported by most leading third-party RIPs

Print Engine Speeds*

8" x 10" prints from 0:59 to 2:26	—	Normal is 1:28
11" x 14" prints from 1:42 to 4:04	—	Normal is 2:31
16" x 20" prints from 2:46 to 6:48	—	Normal is 4:11

Acoustic Noise Level

Approximately 45 dB(A) according to ISO 7779

Operating Systems Supported

Macintosh Leopard 10.5 or higher (16-bit file support)
Windows XP/Vista/7 (both x32 and x64 supported)

Printer Interfaces

Includes as standard one Hi-Speed USB 2.0 (1.1 compatible)
and one Ethernet port (10/100Base-T)

Weight/Dimensions

Printer weight	115 lb
Dimensions	34" (W) x 30" (D) x 16" (H)
Boxed printer weight	140 lb
Dimensions	40" (W) x 36" (D) x 26" (H)

Electrical Characteristics

Voltage	AC 100 – 240 V
Frequency	50 – 60 Hz
Power consumption	
Operating	52 W
Sleep	< 8.5 W
Off (standby)	< 0.5 W

Sleep and Power Off timing user configurable

Optional 17" SpectroProofer

Carriage mechanism	17" wide
Spectrophotometer	X-Rite ILS20EP
Measurement accuracy	Below 0.2 dECMC
Minimum patch size	7 mm (W) x 12 mm (H)
Measurement time	15 patches per second
UV handling	UV and UV-cut version available (at time of order)
Backing color	Both white and black backing plates included
Build-in print dryer	Yes
Workflow integration	Most leading third-party proofing RIPs and workflows

Printable Area

Maximum paper width	17" wide media
Maximum image width	17.23" (for borderless retain-size)
Left and right margins	0 to 3 mm each (0.24" total)
Maximum printable length	Limited by application, OS, and driver/RIP used
Minimum paper width	8" cut sheet media 8" roll media

Media Handling

Loading capability	Roll and sheet media loaded simultaneously
Media weight	12 lb bond (0.08 mm) minimum, up to 1.5 mm posterboard
Roll media	Single roll, 8" up to 17" width
Media core compatibility	Roll media adapters accept either 2" or 3" media cores
Max. roll media diameter	6" (when using a 3" core)
Cut-sheet	8" x 10" up to 17" x 24" media all paper paths
Auto-loading cassette	0.08 to 0.27 mm thick media 20 to 250 sheets based on media type and size
Output tray capacity	Up to 50 sheets
Rear manual feed	Single sheet, 0.08 to 0.79 mm
Straight-through path	Single sheet, 0.8 to 1.5 mm For fine art and thick media

BorderFree Roll Printing

Left and right borderless "bleed" printing
available for the following roll media widths:
8", 10", 11", 13", 14", 16", 16.5", 17"
Top and bottom edges can be automatically cut to any length when
printing on roll media. Spacer required for 8", 11", and 16.5" widths

Media Cutting

Build-in media cutter	Rotary cutting, automatic and manual single pass cut on 17" wide media
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Print Permanence*

Epson UltraChrome HDR Ink	Color: Up to 200 years B&W: Over 200 years
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PreciseColor™ Manufacturing

In order to ensure consistent printing between multiple
Epson Stylus Pro printers of the same model, Epson has refined
the manufacturing process to include colorimetric calibration.
This process evaluates and adjusts each printer's performance
at the manufacturing stage, ensuring consistent color output from
printer to printer and print to print.

Printer Configurations

Epson Stylus Pro 4900 printer	SP4900HDR
Designer Edition (Also includes EFI eXpress RIP for Epson)	SP4900DES

Part Numbers

SpectroProofer Powered by X-Rite

SpectroProofer 17"	SPECTRO17
SpectroProofer 17" with UV-cut filter	SPECTRO17UV

Replacement Items/Accessories

Replacement Ink Maintenance Tank	T619000
Replacement BorderFree Maintenance Tank	T619100
Additional 2/3" Roll Media Spindle	C12C811251
Replacement Printer Cutter Blade	C12C815351

Extended Service Programs

Additional One-year Epson Preferred Plus Service	EPP49B1
Additional Two-year Epson Preferred Plus Service	EPP49B2
Additional One-year Epson Preferred Plus Service SpectroProofer only	EPPSPB1

Epson UltraChrome HDR Ink (200 ml)

Photo Black ink cartridge	T653100
Cyan ink cartridge	T653200
Vivid Magenta ink cartridge	T653300
Yellow ink cartridge	T653400
Light Cyan ink cartridge	T653500
Vivid Light Magenta ink cartridge	T653600
Light Black ink cartridge	T653700
Matte Black ink cartridge	T653800
Light Light Black ink cartridge	T653900
Orange ink cartridge	T653A00
Green ink cartridge	T653B00

A Cartridge yields vary considerably for reasons including images printed, print settings, temperature and humidity. Yields may be lower when printing infrequently or predominantly with one ink color. A variable amount of ink remains in the cartridge after the "replace cartridge" signal. Part of the ink from the first cartridges is used for priming the printer. Ink is used for both printing and print head maintenance. All inks are used for both black and color printing. For more information about cartridges, see www.epson.com/cartridgeinfo

B Based upon print engine high-speed (bi-directional) print mode only. Total throughput times depend upon front-end RIP, file size, printer resolution, ink coverage, networking, etc. Normal Mode based on SuperFine – 1440 dpi.

C Print permanence based on accelerated testing of prints on specialty media, displayed indoors, under UV coated glass. Actual print stability will vary according to media, printed image, display conditions, light intensity, humidity and atmospheric conditions. Epson does not guarantee longevity of prints. For maximum print life, display all prints under glass or lamination or properly store them.

For more details, visit our website at:
www.proimaging.epson.com

Better Products for a Better Future*

For more information on Epson's environmental programs, go to
eco.epson.com

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EXCEED YOUR VISION

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